

CLAIMS:

- sub A7*
1. An anionic electrodeposition coating composition comprising (a) about from 20 to 70 % by weight of acrylic resin; (b) about from 5 to 40 % by weight of emulsified polymer containing alkoxy silyl groups and produced by a multiple stage emulsion polymerization of unsaturated monomers, wherein about from 5 to 40% by weight of the unsaturated monomers used in the multiple stage emulsion polymerization contain alkoxy silyl groups, and the polymerization is carried out in the presence of water and emulsifier; and (c) about from 20 to 60 % by weight of at least one crosslinking agent.
- 10 2. An anionic electrodeposition coating composition of Claim 1, wherein the acrylic resin has an acid value of about from 5 to 150 mg KOH/g.
3. An anionic electrodeposition coating composition of Claims 1 or 2 wherein the acrylic resin has a hydroxy value of about from 5 to 150 mg KOH/g.
- 15 4. An anionic electrodeposition coating composition of any of Claims 1-3, wherein the alkoxy silyl group-containing emulsified polymer containing alkoxy silyl group containing unsaturated monomer is present in an amount of about from 20 to 90% by weight based on a total amount of the unsaturated monomers used in the last stage of emulsion polymerization in the multiple stage emulsion polymerization.
- 20 5. An anionic electrodeposition coating composition of any of Claims 1-4, wherein the alkoxy silyl group-containing emulsified polymer containing the compounds having two or more unsaturated groups in its molecule in the range of about from 5 to 40 % by weight based on a total amount of the unsaturated monomers used in the first stage emulsion polymerization in the multiple stage emulsion polymerization.
- 25 6. An anionic electrodeposition coating composition of any of Claims 1-5, wherein the crosslinking agent is selected from melamine resin and/or blocked polyisocyanate compound.
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